

ALIGNMENTS

```

RESULT 1
US-08-296-791-1
; Sequence 1, Application US/08296791
; Patent No. 6245337
GENERAL INFORMATION:
APPLICANT: St. Geme III, Joseph W.
APPLICANT: Falkow, Stanley
TITLE OF INVENTION: Haemophilus Adherence and Penetration
TITLE OF INVENTION: Protein
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr, Hohnbach, Test, Albritton & Herbert
STREET: 4 Embardadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/296,791
FILING DATE: 25-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Treacartin, Richard F.
REGISTRATION NUMBER: 31,801
REFERENCE/DOCKET NUMBER: A-59941/RT/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4319 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: both
FEATURE:
NAME/KEY: CDS
LOCATION: 60..4241
US-08-296-791-1
Query Match 29.4%; Score 1297.8; DB 4; Length 4319;
Best Local Similarity 59.1%; Pred. No. 0;
Matches 2571; Conservative 0; Mismatches 1567; Indels 213; Gaps 12;

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QY 378 ggaaggaagaactcccgatcagccgctttctaccacaattgtgaagaataat 437
Db 386 AGAGGGAACAACCCCGATCAACATCGTTTACTTATAGATTGTAACGAATAACTA 445
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OY	3660	CGCCGTTTGGCAAGCGGTCATCGGGACACCAACACACCTCGTTGCGAATTCGCGC	37119
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D	3554	TTATCAGCAGCAGAAACGAACTTACGTCAAATTTGGGGTGCAGAAAAGCTTACGTAATGC	36133
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D	3614	ACGAATTTGGGGCACTTTTCTTCGATAGCCCTTCGATTAATACCTTGTGATGAACAGCTTAA	36737
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D	3974	CATTGAGTTGATATATCATTTTACTCGACAGATATATCACGCTTAAGCCTTATTTCTT	40333
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RESULT 2			
PCT-US95-10661A-1			
Sequence 1, Application PC/TUS9510661A			
GENERAL INFORMATION:			
APPLICANT: Washington University, et al.			
TITLE OF INVENTION: Haemophilus Adherence and Penetration Protein			
NUMBER OF SEQUENCES: 9			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert			
STREET: 4 Embarcadero Center, Suite 3400			
CITY: San Francisco			
STATE: California			
COUNTRY: United States			
ZIP: 94111-4187			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			

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1 OPERATING SYSTEM: PC-DOS/MS-DOS
2
3 SOFTWARE: Patentin Release #1.0, Version #1.25
4
5 CURRENT APPLICATION DATA:
6
7 APPLICATION NUMBER: PCT/US95/10661A
8
9 FILING DATE: 16-AUG-1995
10
11 CLASSIFICATION:
12
13 PRIOR APPLICATION DATA:
14
15 APPLICATION NUMBER: US 08/296,791
16
17 FILING DATE: 25-AUG-1994
18
19 CLASSIFICATION:
20
21 ATTORNEY/AGENT INFORMATION:
22
23 NAME: Trecartin, Richard F.
24
25 REGISTRATION NUMBER: 31,801
26
27 REFERENCE/DOCKET NUMBER: FP-59941/RTT
28
29 TELECOMMUNICATION INFORMATION:
30
31 TELEPHONE: (415) 781-1989
32
33 TELEFAX: (415) 398-3249
34
35 TELEX: 910 277299
36
37 INFORMATION FOR SEQ ID NO: 1:
38
39 SEQUENCE CHARACTERISTICS:
40
41 LENGTH: 4319 base pairs
42
43 TYPE: nucleic acid
44
45 STRANDEDNESS: double
46
47 TOPOLOGY: both
48
49 FEATURE:
50
51 NAME/KEY: CDS
52
53 LOCATION: 60..4241
54
55 PCT-US95-10661A-1

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Query Match:	29.48%	Score 1297.8;	DB 5;	Length 4319;
Best Local Similarity	59.18%	Pred. No. 0;	Mismatches 1567;	Indels 213;
Matches 2571;	Conservative	0;	Gaps 12.	
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Qy 138	tttcgcgcatacctaccataactactacgcgcactttccgaaataaagcgaagtctgcagt	197		
Db 146	TTTTGGGATTGATTACCAATATTATTCGATTTTCGCCAGATTAAGGAAAGTTCCACAGT	205		
Qy 198	cggcggaagaagatattcgaagtttcaacaacaaagggagttgtgcgcgaatccgatgg	257		
Db 206	TGGGGCTCAAAATATTAAAGTTATTAAACAACAAGGCAATTACTTGGCACATCANTGAC	265		
Qy 258	gaaagcccgacatgatattgatttcttcgtggtacgcgtaaegcgctggcgccattggcg	317		
Db 266	AAAAAGCCCCGATGATTGATTTTTCGTAGTGCACGTACCGCGCTGGCACCTTGGTGA	325		
Qy 318	cgatcaatattgttagcgttgcacataaagggcgctacatacaatttgaatttggcgc	377		
Db 326	AAATCATATATTGTGAGCGTGGCACTATACGATAGGATATACAGATTTATTTTGGTGC	385		
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Db 386	AGAGGGAAACAACCCCGATCAACATCGTTTAACTATTAAAGTTGTAAAGAAATAACTA	445		
Qy 438	taaaagcagggactaaegcgccatcccttaatggcgcgcatatcatatacgcgcgtttg	497		
Db 446	CAAAAAAG--ATATATTTCATCTCTTAATAGAGACGATTTCATTCACGATTAACTAA	502		
Qy 498	attgtgcacagatgcgaagacgtgttgagatgacgaattatagatgtggtgaatacgc	557		
Db 503	ATTTCGTTACGAAGCGGCTCCCAATTGATATATGACTTTCCGATATGATGCGACTTATTC	562		
Qy 558	tgaattaaataaatacctcgtacgtgttcgaatcggagcagcgagcaaatatgtgcgtc	617		
Db 563	AGATFAGAACAAATATCCGAGAACGHTGTCGATCGCGCTCTGGAAGCGACGATTGGGANA	622		
Qy 618	tgatagaagacgaaccacaataacccgcgaaagtatcatatcatattgcaagcgcatattc	677		
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[illegible]

Db	3734	ATTGGTGTAAACGTGGGAACGGGAATCAAGTCGGAGTAAATAGCGTGAAGAAACAAACGCC	3793
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QY	4137	cattaagcagatattatcattcaacaacgcgcgcgaacacattccatcaagccattattpag	4196
Db	3974	CATTGAGTTGATTAATCACTTTACTCTCCGACAGATATATACAGCGTTAAGCCTTATTTCTT	4033
QY	4197	ccgtctctataccgaatgcgcgtccctcgcgcaaaagtcgnaacgcgcgtcaatataccgcgta	4256
Db	4034	CGTCAATTAATGTGATGACTTTCAACACGCTACAGTACAAACACAGGTAAATTCACAGGTGT	4093
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QY	4377	cgcgcgcatcaaataggctacgcgcgtgtaa 4407	
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RESULT 3
 US-08-210-535--5
 Sequence 5, Application US/08210535
 Patent No. 5965424
 GENERAL INFORMATION:
 APPLICANT: Ambrosius, Dorothea
 APPLICANT: Dony, Carola
 APPLICANT: Rudolph, Rainer
 TITLE OF INVENTION: Recombinant IGA Protease
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Felle & Lynch
 STREET: 805 Third Avenue
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10022
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/210,535
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/820,701
 FILING DATE: 10-Jan-1992
 APPLICATION NUMBER: DE 41 00 704.2
 FILING DATE: 11-Jan-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: DE 41 40 699.0
 FILING DATE: 10-Dec-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 5965424man D.
 REGISTRATION NUMBER: 30,946
 REFERENCE/DOCKET NUMBER: HUBR 1006

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 688-9200

TELEFAX: (212) 838-3864

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 4899 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

US-08-210-535-5

Query Match 4.3%; Score 188.8; DB 2; Length 4899;
Best Local Similarity 61.0%; Pred. No. 3.7e-44;
Matches 345; Conservative 0; Mismatches 212; Indels 9; Gaps 2;

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QY 1344 ttgaaagttaacggtgtgcaaacgacgcctgtccaaatcgcaagcgacgtgtct 1403
DB 1366 TTGGCAAGTCAAAATCCGAATGCGACAGATTGGCAAAAATGCGCAAAAGCACTTGA 1425
QY 1404 gttcaagccaaggggaaacaaagcgtcgatcgatgagtgaggaagtgatcaatctt 1463
DB 1426 AATTAAGCGCAAGCGCTTTAACAAGGGCAATTAAGTGTGGGACGCTGATTTATCT 1485
QY 1464 agatcagcagcgagcagatcaagcaaaaacaaagcctttagtgaatcggtgtgtcag 1523
DB 1486 GAATCAAAAAGCGGATGCCAACAANAAGTTCAAGCTTCTCCCAAGTGGGCAATGTGCA 1545
QY 1524 cggcaggggagcggtgtaactgtaactgtaactgtaactgtaactgtaactgtaact 1583
DB 1546 CGGACGCGGATGTTGTTGATTTAATTAATTAATTAATTAATTAATTAATTAATTA 1605
QY 1584 cggcttcgcgagcgagcgttggattgaaacgggcatcgttcgttcacacgcatca 1643
DB 1606 CGGTTCCGTTGGCGGCTTTGGATGCGCAATGCGCAATGACTTGTGAACACATCCG 1665
QY 1644 aaataccgatgaagggcgatgtatcaacacaaatcaagacaaagatcaacgttac 1703
DB 1666 CAACGTGATGAAGGCGCGGCTTGTCAACACACAGACACGACGCTCCACATACAC 1725
QY 1704 catlacagcaataaagatattacta 1729
DB 1726 ACTAACGGTAATCTTTAATTACCA 1751

RESULT 4

5268270-1
PATENT NO. 5268270
APPLICANT: Meyer, Thomas F.; Halter, Roman; Pohlner, Johannes
TITLE OF INVENTION: PROCESS FOR PRODUCING PROTEINS USING GRAM
NEGATIVE HOST CELLS
NUMBER OF SEQUENCES: 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/171,872
FILING DATE: 01-JUL-1987
SEQ ID NO: 1:
LENGTH: 4899
5268270-1

Query Match 4.3%; Score 188.8; DB 6; Length 4899;
Best Local Similarity 61.0%; Pred. No. 3.7e-44;
Matches 345; Conservative 0; Mismatches 212; Indels 9; Gaps 2;

QY 1167 gaataatggagaataatttccttatttgacaaagaaagtgatgaattactaccag 1226
DB 1192 GAAACAGGACAAATGTTACTTTGAAGCAACGCA-----CTTGGTATTGAATCA 1245
QY 1227 caacataaccaagcgcggtgtgtatlttgaggttaatttcggtctcgctaa 1286
DB 1246 AATCATCAACCAAGCGCGGGCGCTGTTTCAAGGGGATTACACACTCAAGCGCG 1305
QY 1287 aaacaacgaa---acgtgcaagcgcggtcgtcatcatcagtgatgagtaacgttac 1343
DB 1306 AATTAATGACATCTCTGTTAGTGTGGGATTGATGTCGCGACGCAAAAAGTCTGT 1365
QY 1344 ttgaaagttaacggtgtgcaaacgacgcctgtccaaatcgcaagcgacgtgtct 1403
DB 1366 TTGGCAAGTCAAAATCCGAATGCGACAGATTGGCAAAAATGCGCAAAAGCACTTGA 1425
QY 1404 gttcaagccaaggggaaacaaagcgtcgatcgatgagtgaggaagtgatcaatctt 1463
DB 1426 AATTAAGCGCAAGCGCTTTAACAAGGGCAATTAAGTGTGGGACGCTGATTTATCT 1485
QY 1464 agatcagcagcgagcagatcaagcaaaaacaaagcctttagtgaatcggtgtgtcag 1523
DB 1486 GAATCAAAAAGCGGATGCCAACAANAAGTTCAAGCTTCTCCCAAGTGGGCAATGTGCA 1545
QY 1524 cggcaggggagcggtgtaactgtaactgtaactgtaactgtaactgtaactgtaact 1583
DB 1546 CGGACGCGGATGTTGTTGATTTAATTAATTAATTAATTAATTAATTAATTAATTA 1605
QY 1584 cggcttcgcgagcgagcgttggattgaaacgggcatcgttcgttcacacgcatca 1643
DB 1606 CGGTTCCGTTGGCGGCTTTGGATGCGCAATGCGCAATGACTTGTGAACACATCCG 1665
QY 1644 aaataccgatgaagggcgatgtatcaacacaaatcaagacaaagatcaacgttac 1703
DB 1666 CAACGTGATGAAGGCGCGGCTTGTCAACACACAGACACGACGCTCCACATACAC 1725
QY 1704 catlacagcaataaagatattacta 1729
DB 1726 ACTAACGGTAATCTTTAATTACCA 1751

RESULT 5

US-08-232-463-14/C
Sequence 14, Application US/08232463
PATENT NO. 5670367
GENERAL INFORMATION:
APPLICANT: DORNER, F.
APPLICANT: SCHEFFLINGER, F.
APPLICANT: FALKNER, F.G.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 1800 Diagonal Road, Suite 500
CITY: Alexandria
STATE: VA
COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313

FILING DATE: EP 91 114 300.6
 APPLICATION NUMBER: 26-AUG-1991
 FILING DATE: 26-AUG-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: BENT, Stephen A.
 REGISTRATION NUMBER: 29,768
 REFERENCE/DOCKET INFORMATION: 30472/114
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)836-9300
 TELEFAX: (703)683-4109
 TELEX: 899149
 INFORMATION FOR SEQ ID NO: 14:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 7218 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 CLONE: pTZgpt-Fls
 JS-08-232-463-14

Query Match	1.48;	Score 63.8;	DB 1;	Length 7218;
Best Local Similarity	4.98;	Pred. NO. 7.1e-08;		
Matches	20;	Conservative 229;	Mismatches 156;	Indels 0;
			Gaps	0;

OY	3084	gccaacagcaaacgtcgatccggcgcgatggcttaactgaattaccgacaagaagcgga	3143
Dd	1438	GTAACATGAGGGTAACTGTTCATTGCGTTTGCTCAGCAACTGCAGTCCG	1379
OY	3144	gttcgcgctcataatccggtlcaaagaacaggcttccgaccaactcgcaagcgvg	3203
Dd	1378	RRR	1319
OY	3204	agaaacsgagccgcttgacgycaaaacagcacaaattgccgcacaacagcgga	3263
Dd	1318	RRR	1259
OY	3264	aaaaagacaacgcgcaaaagccttagcgcgtcatlgcgcgcgcgcaatgcacgaanaa	3322
Dd	1258	RRR	1199
OY	3324	gvcgaaagtgtlccgaacccggcccgcgcagcgcggaataatgcgcatatgca	3383
Dd	1198	RRR	1139
OY	3384	ggcggaggaagagaaaaacyggtlcaggcggaataagaacocgcttggcgaaacagcg	3443
Dd	1138	RRR	1079
OY	3444	cgaagcggaaacccggcgttaccaacgcgtcccccgcgccg	3488
Dd	1078	RRRRRRRRRRRATCGAACCTCTTGATCGTAGCGAAGCTCG	1034

```

RESULT      6
US-09-103-840A-1/C
: Sequence 1, Application US/09103840A
: Patent No. 6294328
:
GENERAL INFORMATION:
:
: APPLICANT: FLEISCHMAN, Robert D.
: APPLICANT: WHITE, Owen R.
: APPLICANT: FRASER, Claire M.
: APPLICANT: VENTER, John C.
:
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
:
FILE REFERENCE: 24366-20007.00
:
CURRENT APPLICATION NUMBER: US/09/103,840A
:
CURRENT FILING DATE: 1998-06-24
:
NUMBER OF SEQ ID NOS: 2
:
SOFTWARE: PatentIn Ver. 2.1
:
SEQ ID NO 1
:
LENGTH: 4411529

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; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37RV
US-09-103-840A-1

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Query Match	1.0%;	Score 43.2;	DB 4;	Length 4411529;
Best Local Similarity	50.4%;	Pred. No. 3.3;		
Matches 124; Conservative	0;	Mismatches 122;	Indels 0;	Gaps 0;

[illegible]

7
RESULT US-08-737-524B-17/c
7 Sequence 17, Application US/08737524B
7 Patent No. 5912414
7
7 GENERAL INFORMATION:
7 APPLICANT: CARL SAVERIO FALCO
7 APPLICANT: DOMINICK ANTHONY GUIDA, JR.
7 APPLICANT: MARY ELIZABETH HARRETT LOCKE
7 TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS, CHIMERIC
7 TITLE OF INVENTION: GENES AND METHODS FOR INCREASING
7 TITLE OF INVENTION: THE MENTIONINE CONTENT OF THE SEEDS
7 TITLE OF INVENTION: OF PLANTS
7
7 NUMBER OF SEQUENCES: 27
7
7 CORRESPONDENCE ADDRESSES:
7 ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
7 STREET: 1007 MARKET STREET
7 CITY: WILMINGTON
7 STATE: DELAWARE
7
7 COUNTRY: UNITED STATES OF AMERICA
7
7 zip: 19898
7
7 COMPUTER READABLE FORM:
7 MEDIUM TYPE: DISKETTE, 3.50 INCH
7
7 COMPUTER: IBM PC COMPATIBLE
7 OPERATING SYSTEM: MICROSOFT WINDOWS 95
7 SOFTWARE: MICROSOFT WORD FOR WINDOWS 95 (7.0)
7
7 CURRENT APPLICATION DATA:
7 APPLICATION NUMBER: US/08/737,524B
7
7 FILING DATE:
7
7 CLASSIFICATION: 800
7 ATTORNEY/AGENT INFORMATION:
7 NAME: LYNN M. CHRISTENBURY
7 REGISTRATION NUMBER: 30,971
7 REFERENCE/DOCKET NUMBER: BB-1059-A
7 TELECOMMUNICATION INFORMATION:
7 TELEPHONE: 302-992-5481
7 TELEFAX: 302-773-0164
7
7 TELEFAX: 835420
7
7 INFORMATION FOR SEQ ID NO: 17:
7 SEQUENCE CHARACTERISTICS:
7 LENGTH: 579 base pairs
7 TYPE: nucleic acid
7 STRANDEDNESS: single


```

;
; TOPOLOGY: linear
;
; MOLECULE TYPE: DNA (genomic)
;
; FEATURE:
;
; NAME/KEY: CDS
;
; LOCATION: 3..575
;
US-08-737-524B-17

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Query Match	1.0%;	Score 42.8;	DB 2;	Length 579;
Best Local Similarity	47.7%;	Pred. No. 0.018;		
Matches 125;	Conservative 0;	Mismatches 137;	Indels 0;	Gaps 0

OY 3733 accgacctggcccaaatcgtatgcagaaaaaccttcggcaggcgcgctogcaactcy 3792Z
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 322 ATGTCATTGGTGAATTCATCAGCTTGCCATCATCATCGCGGCATCATACTACCCATGCTC 263
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY 3793 ttctgcacaaccggaaccggaanaacaccttcagacagcatcgcgaactcgcagaagctt 3852Z
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 262 ATTGGTACATCATCAAGTCGGCACCATCATTCAGATGCGATCATCTCGGCATCGGCATCATC 203
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY 3853 gcccacgctgcagtcttcgggsaaatcggscalcgcgaagttcgaatatcgcatcaggcg 3912Z
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 202 GTATCGGTGGTCATTAACCCGCCATCATCAATTGGCATTTGGCACTGTGTAAGCGCTAG 143
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY 3913 ggcgcgagtttagtagcgcgacagccttitaagcgcgatcaagycgaaaatccgcgccgc 3972Z
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 142 GCCAACAGTTGCTGCAGCATCAAGGTCGCCACAAGCTAAACAATTGGCAACCCCCCTGTTCC 83
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
OY 3973 gtcgctgataagcgacttaagc 3994
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 82 TTTCATGGCAGTACTGCATCCAAG 61
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 8
: Sequence 3, Application US/08419075
: Patent No. 593599
: GENERAL INFORMATION:
: APPLICANT: Saverio C. Falco
: APPLICANT: Chok-Fun Chui
: APPLICANT: Janet A. Rice
: TITLE OF INVENTION: A High Sulfur Seed
: TITLE OF INVENTION: Protein Gene and
: TITLE OF INVENTION: Method for Increasing
: TITLE OF INVENTION: the Sulfur Amino Acid
: TITLE OF INVENTION: Content of Plants
: NUMBER OF SEQUENCES: 28
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: E. I. du Pont de Nemours
: ADDRESSEE: and Company
: STREET: 1007 Market Street
: CITY: Wilmington
: STATE: Delaware
: COUNTRY: U.S.A.
: ZIP: 19898
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.50 inch,1.0MB
: COMPUTER: Macintosh
: OPERATING SYSTEM: Macintosh System, 6.0
: SOFTWARE: Microsoft Word, 4.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/419,075
: FILING DATE:
: CLASSIFICATION: 800
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/098,371
: FILING DATE:
: APPLICATION NUMBER: 07/656,687
: FILING DATE: 14-FEB-1991
: ATTORNEY/AGENT INFORMATION:
: NAME: Linda Axamethy Floyd
: REGISTRATION NUMBER: 33,692
: REFERENCE/DOCKET NUMBER: BB-1027-A

TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 579 nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: in vitro mutated genomic
MOLECULE TYPE: DNA
PUBLICATION INFORMATION: unpublished
PUBLICATION INFORMATION: sequence
US-06-419-075-3

Query Match	1.0%;	Score 42.8;	DB 2;	Length 579;
Best Local Similarity	47.7%;	Pred. No. 0.018;		
Matches 125;	Conservative	0;	Mismatches 137;	Indels 0;
			Gaps	0

QY	3153	accgaactcggcccaaatcggtagtcagaaanaacctcggcagcgcgccgcgcgactctg	3792
Db	322	ATCCCTCATTGGTGAATCAATCATGCTTGGCATCATCATCATGCGCGGCATCATATATACCATTCGTC	263
QY	3793	tttcgcacaacccgagaccggaanaaccttcgaacgcgcattcgcgaactcggcaacggtt	3852
Db	262	ATTGGTAGCATCATATAGTCGCGCACCATCATCATGATGATGATCATCATCTGGCATTCGGCATCATTC	203
QY	3853	gcccaacggttcacgttttcgcgcaatacgcgcattcggcgaagtttcgcacatcggcatcagcgcg	3912
Db	202	GTCATCGGTGGCATCATACCCGCGCATCATCATTTGGCATTTGGCATCTGTAAGCCGCTATG	143
QY	3913	ggcgcgaggttttagtagcggcagccttcaagacgcgcattagagggcaaaatccgcpcgcgc	3972
Db	142	GCCACACATTGCTCCACCATCAAGGAGTGGCGCACGCTTAACAAATTGGCAACCCCTGTTTC	83
QY	3973	gtgcgtcattacgcattcaag	3994
Db	82	TTTCATGACGACTACCATTCACG	61

RESULT 5
US-08-737-524B-12/c
Sequence 12, Application US/08737524B
Patent No. 5912414
GENERAL INFORMATION:
APPLICANT: CARL SAVERIO FALCO
APPLICANT: DOMINICK ANTHONY GUIDA, JR.
APPLICANT: MARY ELIZABETH HARNETT LOCKE
TITLE OF INVENTION: NUCLEOTIC ACID FRAGMENTS, CHIMERIC
TITLE OF INVENTION: GENES AND METHODS FOR INCREASING
TITLE OF INVENTION: THE METHIONINE CONTENT OF THE SEEDS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESSES:
ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
STREET: 1007 MARKET STREET
CITY: WILMINGTON
STATE: DELAWARE
COUNTRY: UNITED STATES OF AMERICA
ZIP: 19898
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.50 INCH
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MICROSOFT WINDOWS 95
SOFTWARE: MICROSOFT WORD FOR WINDOWS 95 (7.0)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/737,524B
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: LYNN M. CHRISTENBURY

COUNTRY: U.S.A.
ZIP: 19898
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.0MB
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/419,075
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/098,371
FILING DATE:
APPLICATION NUMBER: 07/656,687
FILING DATE: 14-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1027-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ. ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 647 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Nucleic Acid (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 2..646
US-08-419-075-20

Query Match 1.0%; Score 42.8; DB 2; Length 647;
Best Local Similarity 47.7%; Pred. No. 0.019;
Matches 125; Conservative 0; Mismatches 137; Indels 0; Gaps 0;

QY 3733 accgaactcgccaaatcgtatgacagaaaacctcgagcgcgctggcatcctg 3792
DB 390 ATCGTATGGTGAATTCATGCTTGGCATCATCATCGGGCATCTACTAGCATCGTC 331
QY 3793 ttctgcacaaccgagcgaacacaccttcgacgacgagcgcgaactcgcaagcgt 3852
DB 330 ATTGGTGACATCATATGTCGGGACCATCATCATGATGCGCATCTCGGCAATCGCATCATC 271
QY 3853 gccacagtgctgcttttcgggcaatacggcatcgaggttcgacacatcgccatcgagcg 3912
DB 270 GTCATCGGTGGCATCATACCCGGCATCATCATGTCGATCTGGGACATCGCTGAAGCGGTGAG 211
QY 3913 ggcgcgggttttagtagggcgagcctttcaagacgcatcagaaggaataatcgccgcgcg 3972
DB 210 GCCAACAGTTGCTGCAGATCAGGGTCGCCACGCTAACAGAGTTGGCAACCCCTGTTGC 151
QY 3973 gtgctgcatcagcattcagg 3994
DB 150 TTCATGCACTACTGATCCAG 129

RESULT 12
US-08-419-075-18/c
Sequence 18, Application US/08419075
Patent No. 5939599
GENERAL INFORMATION:
APPLICANT: Saverio C. Falco
APPLICANT: Chok-Fun Chui
APPLICANT: Janet A. Rice
TITLE OF INVENTION: A High Sulfur Seed
TITLE OF INVENTION: Protein Gene and
TITLE OF INVENTION: Method for Increasing

TITLE OF INVENTION: the Sulfur Amino Acid
TITLE OF INVENTION: Content of Plants
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: E. I. du Pont de Nemours
and Company
STREET: 1007 Market Street
CITY: Wilmington
STATE: Delaware
COUNTRY: U.S.A.
ZIP: 19898
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.0MB
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/419,075
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/098,371
FILING DATE:
APPLICATION NUMBER: 07/656,687
FILING DATE: 14-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1027-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ. ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 653 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Nucleic Acid (genomic)
IMMEDIATE SOURCE:
CLONE: pCC18
FEATURE:
NAME/KEY: CDS
LOCATION: 2..652
US-08-419-075-18

Query Match 1.0%; Score 42.8; DB 2; Length 653;
Best Local Similarity 47.7%; Pred. No. 0.019;
Matches 125; Conservative 0; Mismatches 137; Indels 0; Gaps 0;

QY 3733 accgaactcgccaaatcgtatgacagaaaacctcgagcgcgctggcatcctg 3792
DB 396 ATCGTATGGTGAATTCATGCTTGGCATCATCATCGGGCATCATCAAGCATCGTC 337
QY 3793 ttctgcacaaccgagcgaacacaccttcgacgacgagcgcgaactcgcaagcgt 3852
DB 336 ATTGGTGACATCATATGTCGGGACCATCATCATGATGCGCATCTCGGCAATCGCATCATC 277
QY 3853 gccacagtgctgcttttcgggcaatacggcatcgaggttcgacacatcgccatcgagcg 3912
DB 276 GTCATCGGTGGCATCATACCCGGCATCATCATGTCGATCTGGGACATCGCTGAAGCGGTGAG 217
QY 3913 ggcgcgggttttagtagggcgagcctttcaagacgcatcagaaggaataatcgccgcgcg 3972
DB 216 GCCAACAGTTGCTGCAGATCAGGGTCGCCACGCTAACAGAGTTGGCAACCCCTGTTGC 157
QY 3973 gtgctgcatcagcattcagg 3994
DB 156 TTCATGCACTACTGATCCAG 135

1


```

QY 3227 caaaacaggcacaacttcgcccacaaacagcgagaaagacacagcgcaaacgcttg 3286
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20939 ACGAGAGAGATGACGAGGAGGATGACGAGAGATGACGAGGATGACGAGGAGATG 20880
QY 3287 acgcgtatgttgccgagcgagcgcaatgcccacgaaagcgagaaagtgttcgcaacgg 3346
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20879 ACGAGAGAGATGACGAGGAGGATGACGAGGAGATGACGAGGAGATGACGAGGAG 20820
QY 3347 cccgagcagcgagcgaggaagaaatgcggcattatgcagcgaggaagaaagaaacgg 3406
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20819 ACGAGAGAGATGACGAGGAGGATGACGAGGAGATGACGAGGATGACGAGGATGAC 20760
QY 3407 tgcagcgataaagacacgcgcttgcgcaaacagcgagcgagaaacccggcgctta 3466
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20759 ACGAGAGAGATGACGAGGAGGATGACGAGGAGATGACGAGGAGATGACGAGGAG 20700
QY 3467 ccaacgcttcccccgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 3526
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20699 ACGAGAGATGACGAGGAGGATGACGAGGAGATGACGAGGAGATGACGAGGAGATG 20640
QY 3527 cgcaccccaacacgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 3582
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20639 ACGAGAGATGACGAGGAGGATGACGAGGAGATGACGAGGAGATGACGAGGAGATG 20580
QY 3583 gaatttcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 3642
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20579 ACGAGAGATGACGAGGAGGATGACGAGGAGATGACGAGGAGATGACGAGGAGATG 20520
QY 3643 gccgaagcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 3702
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20519 ACGAGAGATGACGAGGAGGATGACGAGGAGATGACGAGGAGATGACGAGGAGATG 20460
QY 3703 tcgaagatttcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 3762
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 20459 ACGAGAGATGACGAGGAGGATGACGAGGAGATGACGAGGAGATGACGAGGAGATG 20400
QY 3763 aacctcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 3822
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RESULT 18
US-09-230-371A-20/c
; Sequence 20. Application US/09230371A
; Patent No. 6348586
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A
; APPLICANT: Russo, James J
; APPLICANT: Edelman, Isidore S
; APPLICANT: Moore, Patrick S
; TITLE OF INVENTION: UNIQUE ASSOCIATED KAPOSI'S SARCOMA VIRUS SEQUENCES AND
; FILE REFERENCE: 45185-G-PCT-US
; CURRENT FILING DATE: 1999-11-17
; PRIOR FILING DATE: 1997-07-22
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Patent Ver. 2.0

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; SEQ ID NO 20
; LENGTH: 32207
; TYPE: DNA
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
US-09-230-371A-20

Query Match      0.9%; Score 41.4; DB 4; Length 32207;
Best Local Similarity 41.6%; Pred. No. 0.54;
Matches 338; Conservative 0; Mismatches 471; Indels 4; Gaps 1.

QY 3167 aagaacaaagcgttccgcaaacctgcgcaaacgagcgagaaagcgccgcttgacg 3226
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QY 3407 tgcagcgataaagacacgcgcttgcgcaaacagcgagcgagaaacccggcgctta 3466
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